## ABSTRACT OF THE DISCLOSURE

- The invention provides high solids epoxy-based autodeposition coating materials and a
- 2 means to obtain the high solids epoxy-based autodeposition coating materials that
- eliminates/minimizes the need for process solvents. An epoxy pre-polymer is used. The epoxy
- 4 pre-polymer is combined with ethylenically unsaturated monomer, as an alternative to organic
- solvent, to yield an epoxy-monomer blend, which may be blended with other coating
- 6 components and additives. The resulting blend is then dispersed in water with surfactant and the
- ethylenically unsaturated monomer is polymerized (in the presence of other formulation
- 8 components) to yield a dispersion. The dispersion may then be used as one component of a
- 9 coating formulation. The coating formulation can then be applied to materials and cured to form
- 10 a final coating.